

PHILIPPINE  
PORTS  
AUTHORITY

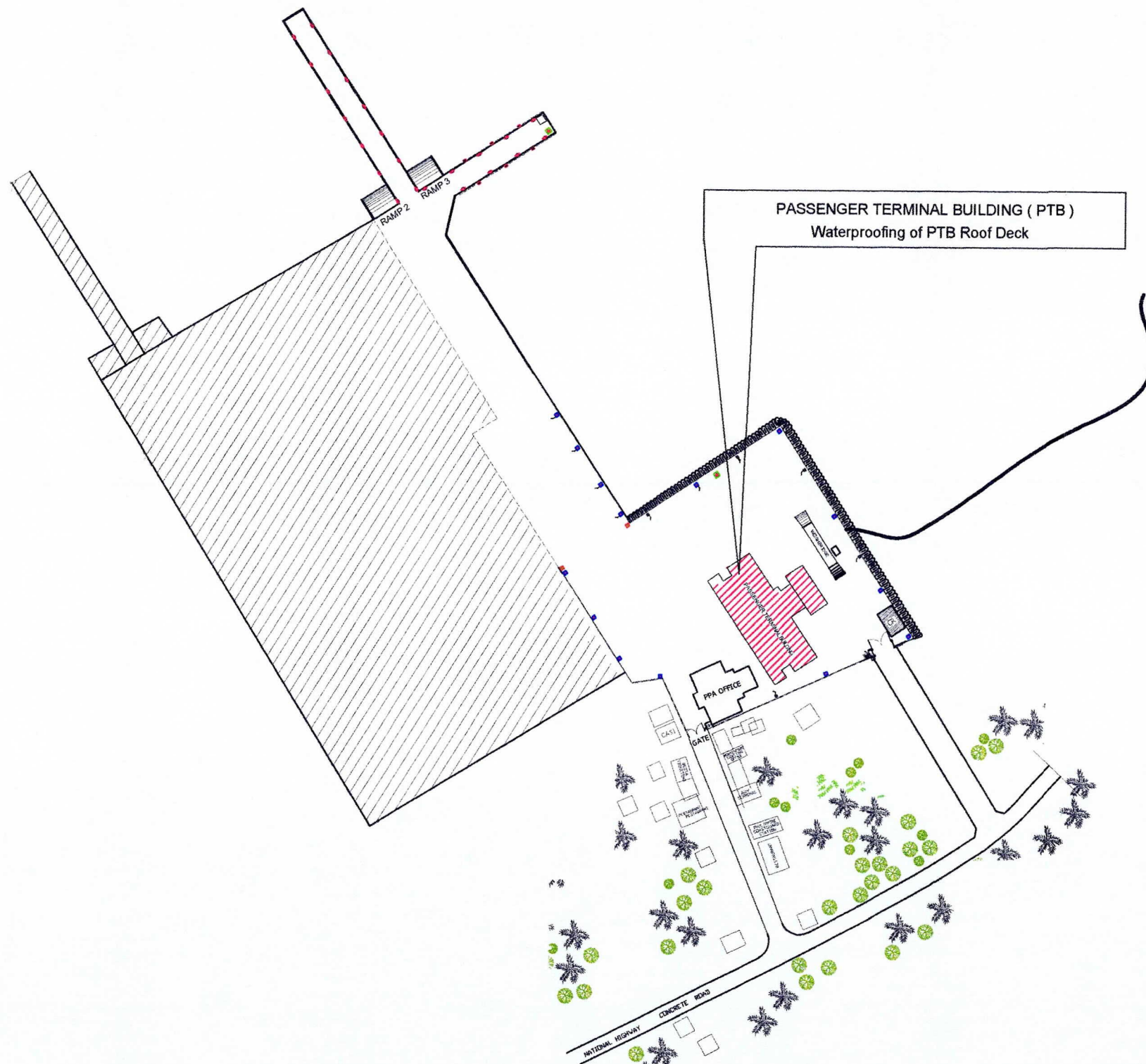


PMO- MINDORO

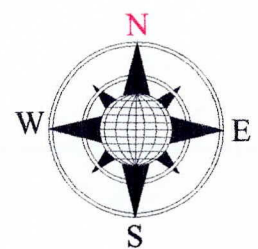
## WATERPROOFING OF PTB ROOF DECK

PORT OF ABRA DE ILOG, OCCIDENTAL MINDORO





**PORT LAYOUT PLAN**  
**PORT OF ABRA DE ILOG**  
 OCCIDENTAL MINDORO



**PROJECT TITLE:** WATERPROOFING OF PTB ROOF DECK  
 PORT OF ABRA DE ILOG, OCCIDENTAL MINDORO

**PREPARED BY:**  
  
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**SUBMITTED BY:**  
  
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**CHECKED / REVIEWED BY:**  
  
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 Division Manager A, ESD

**APPROVED:**  
  
**ELVIS R. MEDALLA**  
 Port Manager A

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	31 AUG 2023



NOTES:

WATERPROOFING OF PTB ROOF DECK

1. Surface Preparation, Chip-off of Damaged/Crack portions of Roof Deck including Cleaning and Application of High-Viscosity Concrete Epoxy on Cracks
2. Application of Liquid Bituminus Membrane with Fiberglass Mesh for Roof Deck including 0.20m top portion of parapet wall
3. Conduct flood testing for watertightness of Liquid Bituminus Membrane Waterproofing
4. Application of thin topping with 2% slope

Liquid Bituminus Membrane with Fiberglass Mesh

USES

Balconies, Terraces, Foundations, Bathrooms, Kitchens, Roof Decks, Highways, Garages and Concrete Tanks

SIZES AVAILABLE

4 kg, 20 kg

COLOR

Black Bitumen

COVERAGE

2.5 sq. meters for 4kg

12 sq. meters for 20kg

(Coverage may vary with the application technique used)

.625 kg / sq. m

SURFACE PREPARATION

All surfaces should be clean, dry, and free from grease, oil or dust. Remove all loose material. Moisture content should not exceed 5%. New concrete should be at least 14 days old. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinder. Surface irregularities need to be smoothened. Any loose surface pieces and dust need to be thoroughly removed using a broom or vacuum.

**WARNING:** Do not wash surface with water.

PRE-STRIPING

Pre-striping of cracks and joints: Clean surface and remove old waterproofing that has separated or debonded. Cracks and expansion joints and areas where floor and wall meet should be filled by pre-striping. Apply bitumen by using a brush by filling areas with joints and cracks 3" to 4" wide. Allow to dry and follow application instructions.

APPLICATION

Mark an area of 12 sq. meters for a 20 kg. Pail or a 2.5 sq. meters area for every 4 kilos. Pour Primero Pro Bitumen straight from the can and spread on surface until the entire surface is covered. Repeat procedure until area to be waterproofed is covered. Allow Bitumen to overlap at least 2 inches. Allow to dry overnight. Protect from direct rain, dirt and dust for 12 hours.

**To use with fiberglass mesh:** Pre-stripe the area and apply a layer of Bitumen on the marked area. While wet, lay down the fiberglass mesh and flatten onto wet Bitumen. Make sure that the mesh is covered. Pour the rest of the content of pail or can onto marked area and use a plastic or rubber towel to spread Bitumen evenly.

**To use as topping:** Apply a 2 inches slab topping to protect Bitumen from foot traffic and any other elements.

**To use in metal surfaces:** All metal must be clean and primed with epoxy primer or zinc chromate primer.

PRECAUTIONS

Bubbling may occur if applied on substrates that are wet. It should not be exposed to UV rays. It should not be used where a solvent odor is objectionable such as in close proximity to areas where food preparation or processing take place during the time of application. Apply in area with good ventilation. Use ventilator or mask while applying. Protect freshly applied Bitumen from direct rain, dirt, grease and loose material for at least 12 hours.

DRYING TIME

4 to 5 hours touch dry  
24 hours foot trafficable  
7 days full cure



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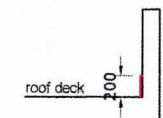




# LEGEND:



AREA OF ROOF DECK TO BE WATERPROOFED  
TOTAL AREA = 739.70 sq.m.



PORTION OF PARAPET WALL TO BE WATERPROOFED  
= 24.96 sq.m.

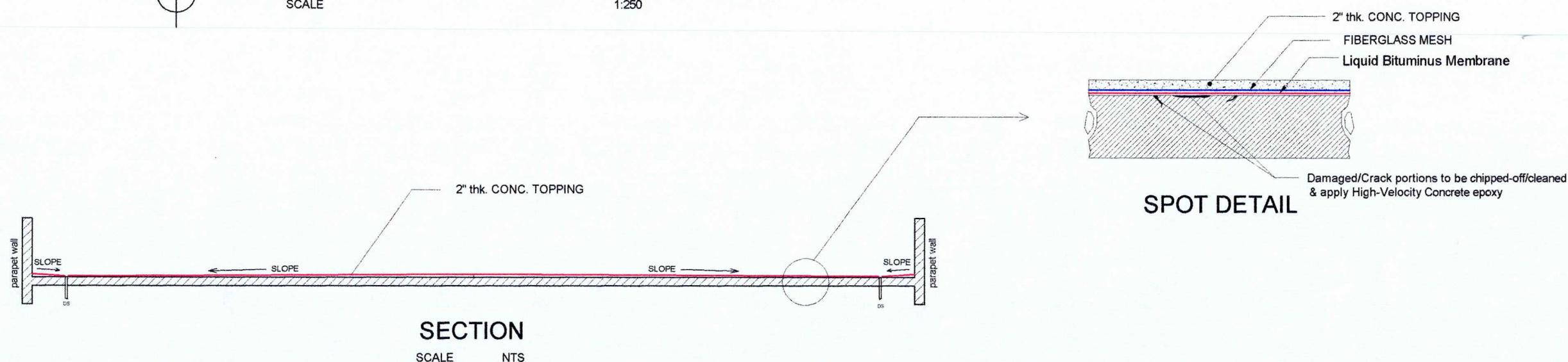


CRITICAL AREA  
part of the roof deck needs to be waterproofed with thicker waterproofing

- A<sub>1</sub> = 51.20 sq.m.
- A<sub>2</sub> = 53.55 sq.m.
- A<sub>3</sub> = 107.00 sq.m.
- A<sub>4</sub> = 92.05 sq.m.
- A<sub>5</sub> = 52.00 sq.m.
- A<sub>6</sub> = 84.00 sq.m.
- A<sub>7</sub> = 9.60 sq.m.
- A<sub>8</sub> = 24.00 sq.m.

Total Critical area = 473.40 sq.m.

PLAN OF ROOF DECK TO BE WATERPROOFED  
SCALE 1:250



SPOT DETAIL

SECTION

SCALE NTS



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